NOVEMBER/DECEMBER 2024

23UFCS14/23UFSC14 — PROBLEM SOLVING TECHNIQUES (FC)

Time : Three hours Maximum : 75 marks

Shanmuga Industries Arts & Science College
T.V.Malai

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Name any five Input devices.
2. Distinguish Assembly language and machine language.
3. List the various data types.
4. Identify the limitations of flow chart.
5. List the Relations operators.
6. Give any two applications of Repetition structures.
7. Define arrays.
8. Give one example for string data.
9. What do you mean by variable scope?
10. Define Recursion.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Outline the limitations of computer.

Or

(b) Compare: Interpreters and Compilers.

12. (a) List and explain the various Arithmetic operators.

Or

(b) Discuss the features of modular programming.

13. (a) How to select from several alternatives using selection structures? Explain.

Or

(b) Explain about counter controlled loops.

14. (a) List and explain the various types of data.

Or

(b) What is one-dimensional array? How one-dimensional array supports programming paradigm?

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15. (a) Show the various DFD symbols and explain it.

Or

(b) Explain the concept of Functions.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the anatomy of computer with neat sketch.

17. Outline Flowchart symbols and explain the types of flowchart.

18. Explain about various Repetition structures.

19. Discuss about Two dimensional arrays and its applications.

20. Explain the steps in creating, reading and modifying a sequential file.

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